



LIPPERT
COMPONENTS®

TSB Number:	01-002-18
Product:	Solera® Awning Smart Arm
Date:	March 12, 2018

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Subject:

Sealant correction to mitigate moisture in the Solera® Awning Smart Arm wiring harness splice lines.

Overview:

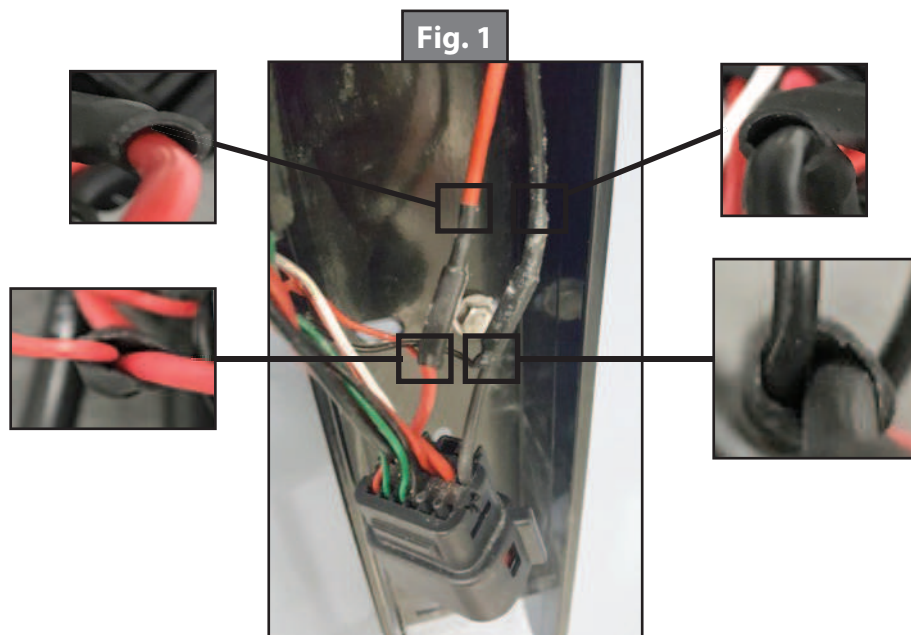
This bulletin involves adding sealant around the shrink tubing to block leak paths.

Models:

All Solera Smart Arms with date of manufacture earlier than 3/1/18.

Symptom/Condition:

The power and ground 16AWG wires of the connector harness are split to provide signals for multiple Solera Smart Arm functions. In some cases there may be a leak path that allows moisture past the shrink tubing (Fig. 1), which may then cause a short circuit in the Smart Arm touch pad (touch pad is also known as Smart Arm controller.)



Labor Time Allowed:

0.5 hours



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Resources Required:

- Electrical tape
- A quick-curing electrical sealant intended for outdoor use that is not silicone or gel/paste material. LCI recommends using one of the sealants shown below (Figs. 2 and 3).

Fig. 2



Fig. 3



Instructions

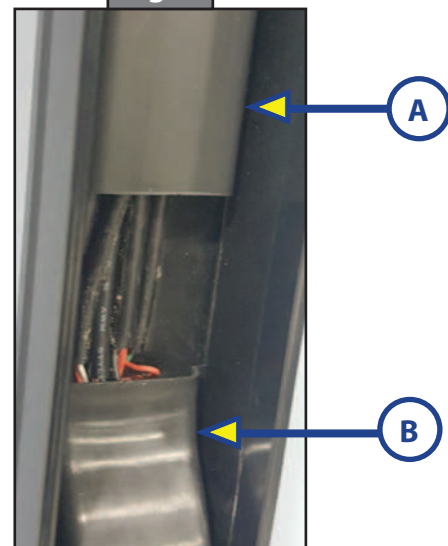
1. Open the awning arm to access the Solera Smart Arm touch pad (Fig. 4).
2. Slide the wire cover up (Fig. 5A), then pull outward to remove.
3. Remove the connector small wire cover (Fig. 5B).

NOTE: Complete a full inspection of all components prior to starting the sealant process. Check the area being sealed for any moisture. If any moisture is present, dry the area completely or allow to dry completely prior to starting the sealant process. Check all components for corrosion or damage. If any corrosion or damage is present, components must be replaced prior to adding sealant

Fig. 4



Fig. 5

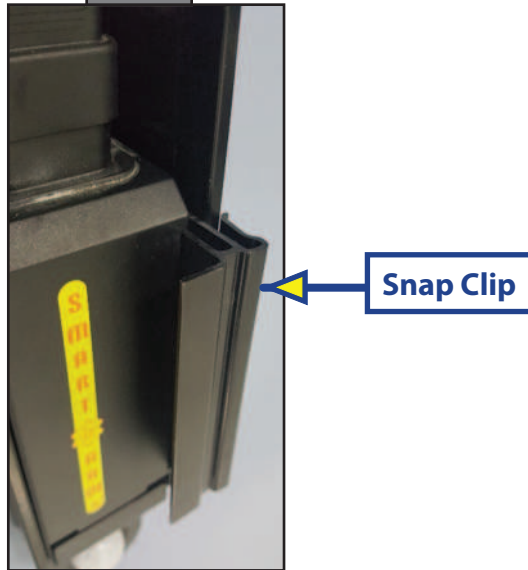




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4. Pull the snap clip (Fig. 6) outward to free the touch pad.

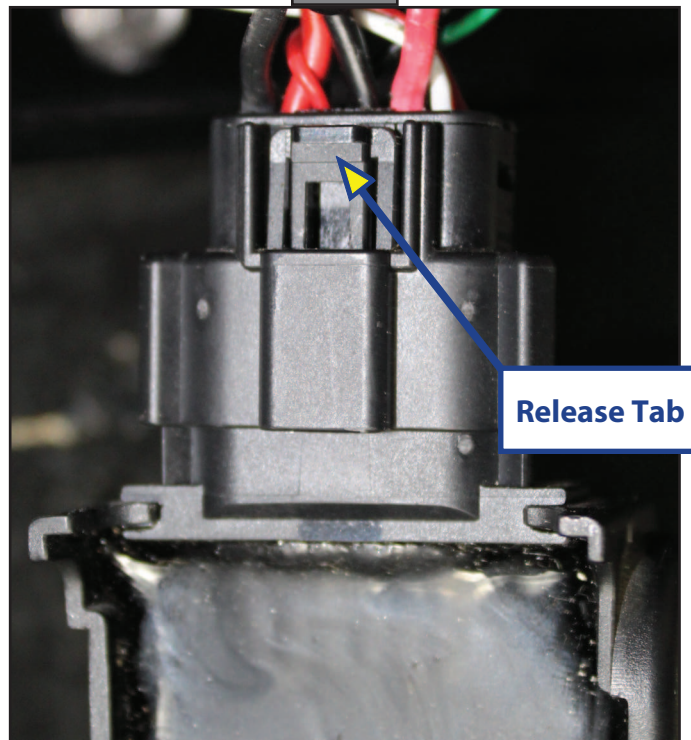
Fig. 6



NOTE: Retain the wire cover and connector small wire cover for reassembly.

5. Detach the touch pad from the connector harness by pressing the release tab (Fig. 7) and pulling.

Fig. 7

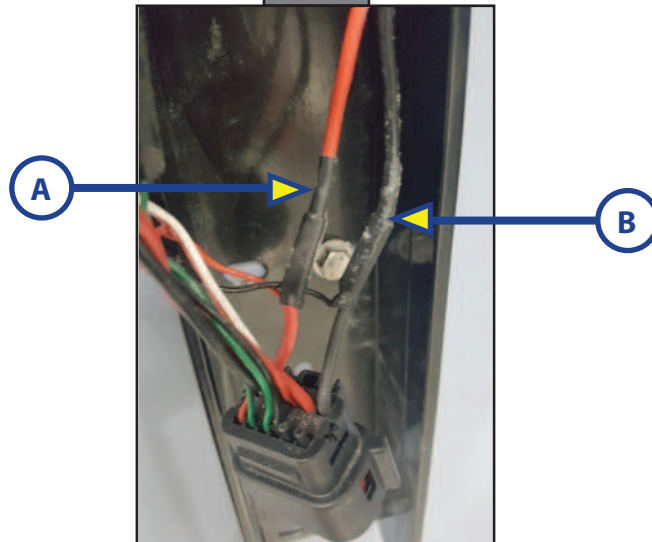




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6. Identify the power (red) and ground (black) splice lines in need of sealant (Figs. 8A and 8B).

Fig. 8



⚠ CAUTION

Failure to ensure the area being sealed is dry and components are undamaged and corrosion-free could cause the system to fail.

7. Apply sealant at the top end of the shrink tubing for each of the splice lines.
8. Invert the wires to apply sealant to the other ends, allowing gravity to draw the sealant into the shrink tube cavities and fill all the gaps (Fig. 9).

Fig. 9



NOTE: Each application of the sealant should cure for at least 10 minutes.

NOTE: Do not allow the other wires to come in contact with the sealant until it dries. This may cause a void and give moisture an access point.



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9. Tape the wire bundles together, starting from the top of the connector to where the bundles begin to go in different directions (Fig. 10), taking care not to tape over the release tab on the connector.

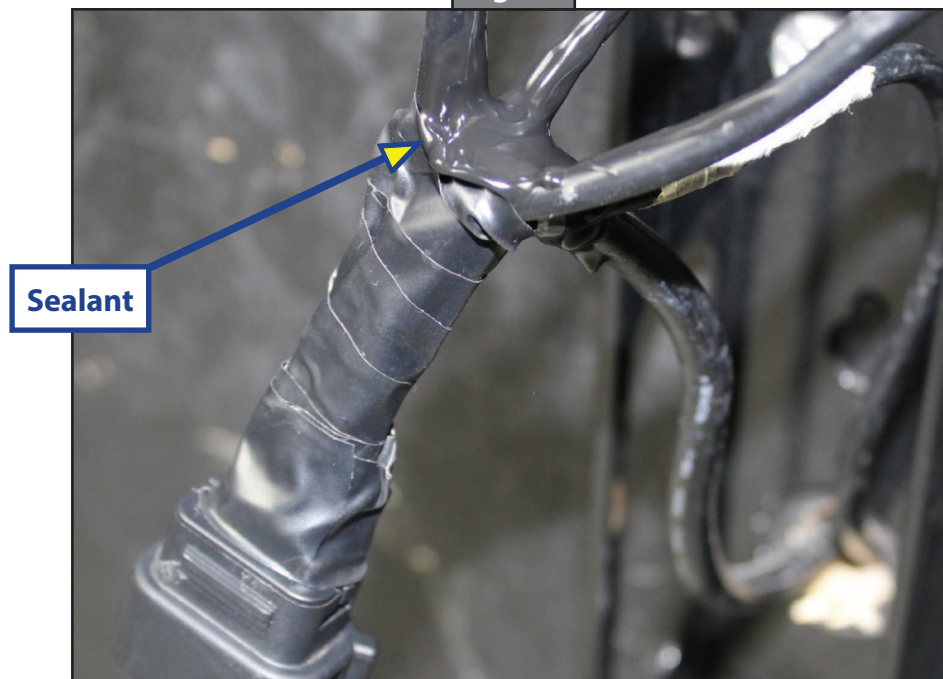
Fig. 10



NOTE: Do not tape the wire bundles too tightly, because it could pull wires from the connector.

NOTE: Do not over-tape the wire bundles. Over-taping the wire bundles could make them too bulky and affect the reinstallation of the connector small wire cover and the wire cover.

Fig. 11



10. Apply sealant to the top of the taped wire bundles (Fig. 11). Allow to cure for at least 10 minutes.
11. Reconnect the touch pad to the connector harness.
12. Reinstall the touch pad, snap clip, the connector small wire cover, and the wire cover.